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AMENDMENT TO THE CLAIMS II.

The listing of claims replaces all prior versions, and listings, of claims of the application.

(Currently amended) A self-aligned bipolar transistor structure comprising: 1.

a raised extrinsic base including:

an outer region;

an inner extension region extending laterally inward from the outer region toward an emitter, the inner extension region horizontally non-overlapping the buter fegion; and an intrinsic base positioned below the raised extrinsic base, the intrinsic base being separated from the outer region by a dielectric layer positioned above the intrinsic base.

- (Original) The transistor of claim I, wherein the outer region is separated from an 2. intrinsic base duter region by a dielectric layer.
- (Original) The transistor of claim 1, wherein the inner extension region defines an 3. opening into which the emitter is self-aligned to the raised extrinsic base.
- (Original) The transistor of claim 1, further comprising a spacer between the inner 4. extension region and the emitter.
- (Original) The transistor of claim 1, wherein the emitter has a width less than 0.1 5. microns.

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- 6. (Original) The transistor of claim 1, wherein the inner extension region has a non-uniform width.
- 7-9. (Cancelled).
- 10. (Original) The transistor of claim 1, wherein only the inner extension region contacts the intrinsic base.
- 11. (Original) The transistor of claim 1, wherein the outer region has a first doping concentration and the inner extension region has a second doping concentration, and the second doping concentration is different than the first doping concentration.
- 12. (Currently amended) A transistor comprising:

a raised extrinsic base including:

an outer region that contacts an intrinsic base at a first location; and
an inner extension region distinct from the outer region, the inner
extension region contacting the outer region and contacting the intrinsic base at a
second location laterally inward and separated from the first location by a
separation portion.

13. (Original) The transistor of claim 12, wherein the outer region has a first doping concentration and the inner extension region has a second doping concentration, and the second

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doping concentration is higher than the first doping concentration.

- 14. (Original) The transistor of claim 12, wherein the outer region includes a polysilicon and the inner extension region includes one of silicon and polysilicon.
- 15 30. (Cancelled).
- 31. (New) A self-aligned bipolar transistor structure comprising:

a raised extrinsic base including:

an outer region;

an inner extension region extending laterally inward from the outer region toward an emitter, the inner extension region horizontally non-overlapping the outer region; and

an intrinsic base positioned below the raised extrinsic base;

wherein the outer region and the inner extension region each contact the intrinsic base and the outer region also contacts an intrinsic base outer region that is positioned over a shallow trench isolation and below the outer region.

- 32. (New) The transistor of claim 31, wherein the outer region contacts the intrinsic base at a first location separated from a second location where the inner extension region contacts the intrinsic base.
- 33. (New) The transistor of claim 31, wherein the inner extension region defines an opening into which the emitter is self-aligned to the raised extrinsic base.

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- 34. (New) The transistor of claim 31, further comprising a spacer between the inner extension region and the emitter.
- 35. (New) The transistor of claim 31, wherein the emitter has a width less than 0.1 microns.
- 36. (New) The transistor of claim 31, wherein the inner extension region has a non-uniform width.

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